

Table 1. Demographic characteristics of the study population	
Age (years)	65.0 ± 10.0
Gender (male/female)	100/100
Education (years)	12.0 ± 2.0
Occupation (white/blue)	100/100
Marital status (married/divorced/widowed)	100/100/100
Smoking status (smoker/nonsmoker)	100/100
Alcohol consumption (yes/no)	100/100
Comorbidities (hypertension/diabetes/cholesterol)	100/100/100
Medication (antihypertensive/antidiabetic/anticholesterol)	100/100/100
Family history (hypertension/diabetes/cholesterol)	100/100/100
Physical activity (yes/no)	100/100
Stress level (high/low)	100/100
Sleep quality (good/poor)	100/100
Depression (yes/no)	100/100
Overall health (good/poor)	100/100

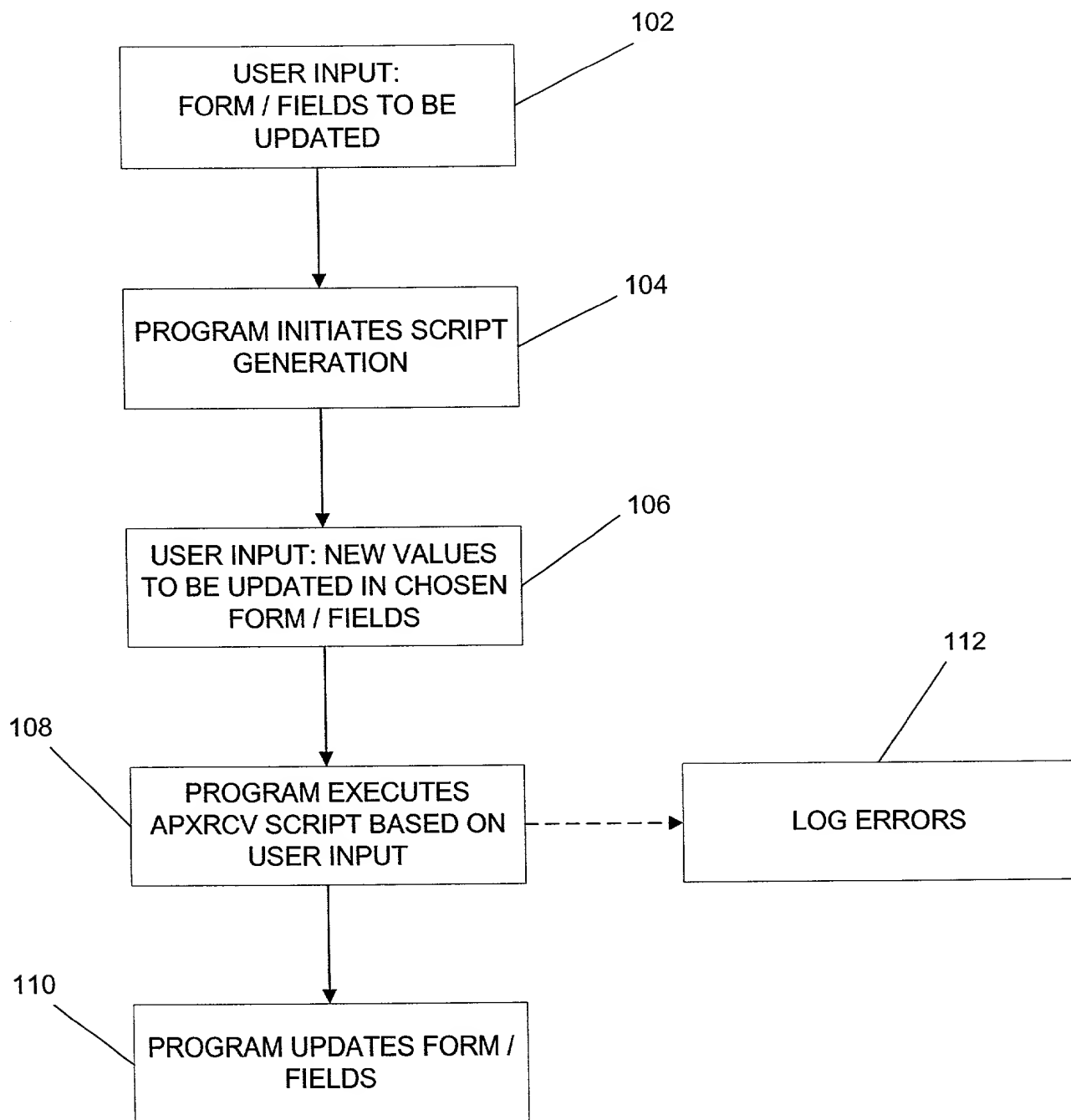


FIG. 3

```

graph TD
    122[RF FREQUENCY GROUP GENERATES DATA FILES] --> 124[DATA FILES INPUT TO MAIN PROGRAM]
    124 --> 126[CREATE FILES:  
ctmret.i  
tpptmret.i  
dcchret.i  
dcchrad.i  
ceqsuret.i  
reselret.i  
fciret.i]
    126 --> 128[SEND FILE dcchrad.i TO ECP]
    128 --> 130[CREATE APXRCV SCRIPT FILES:  
E1dcch.ret  
E1ctm.ret/E1tppt.ret]
    130 --> 132[CHECK FOR PCS SYSTEM]
    132 -- NO --> 134[CREATE APXRCV SCRIPT FILE  
E1ceqsu.ret]
    132 -- YES --> 136[CREATE APXRCV SCRIPT FILE  
E1resel.ret]
    134 --> 136
    136 --> A((A))

```

1000

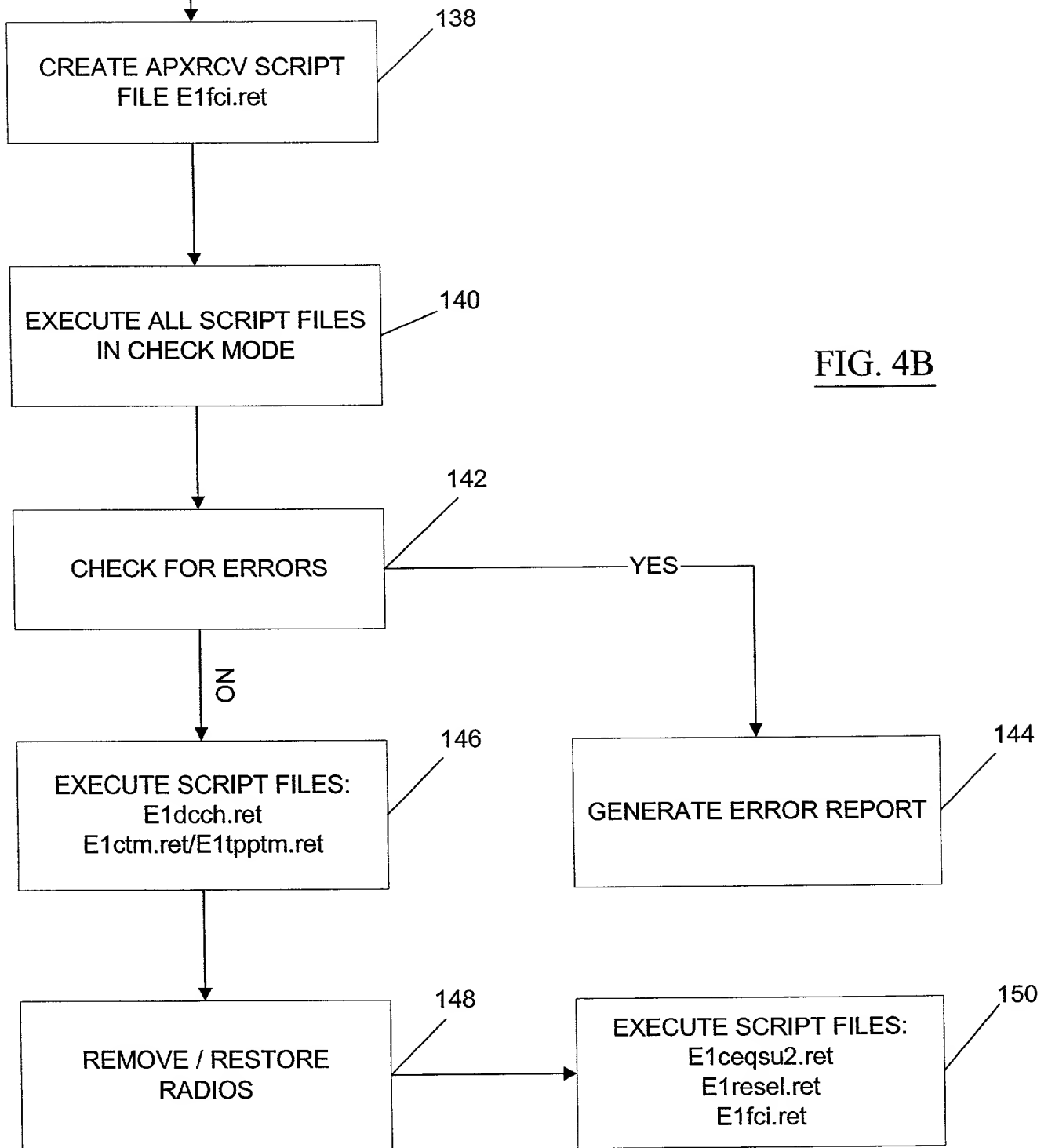


FIG. 4B

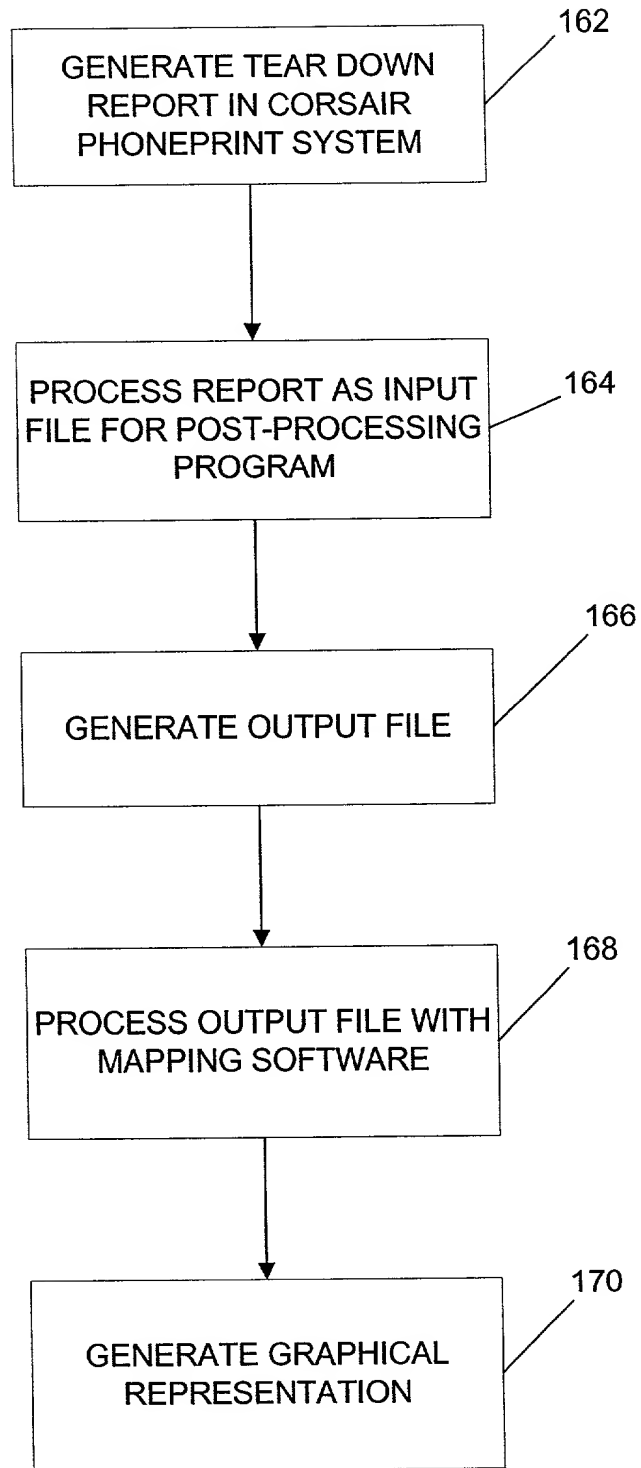


FIG. 5

>pg pp9912.txt

Date	Time(2)	Site_ID	MIN(1)	Dialed_Digits	Tear-Down Reason	
12/25/99	19:26:09		20	2012075854	12014981322	MFG
12/23/99	14:56:20		219	2012075854	5617767114	MFG
12/26/99	21:40:32		167	2012130072	19547814445	MFG
12/23/99	19:06:49		82	2012134416	9544289147	MFG
12/23/99	19:06:23		82	2012134416	9544289147	MFG
12/25/99	17:23:55		82	2012134416	9544285083	MFG
12/25/99	15:06:20		82	2012134416	2015680907	MFG
12/25/99	13:04:16		82	2012134416	2015680907	MFG
12/25/99	13:04:05		82	2012134416	2015680907	MFG
12/25/99	13:03:53		82	2012134416	2015680907	MFG
12/25/99	13:03:31		82	2012134416	2015680907	MFG
12/25/99	13:01:49		82	2012134416	2015680907	MFG
12/25/99	12:53:38		82	2012134416	2015680907	MFG
12/25/99	12:52:32		82	2012134416	2015680907	MFG
12/25/99	12:52:03		82	2012134416	2015680907	MFG
12/25/99	12:50:48		82	2012134416	2015680907	MFG
12/25/99	12:48:15		82	2012134416	2015680907	MFG
12/25/99	12:47:16		82	2012134416	5680907	MFG
12/24/99	11:58:50		82	2012134416	8003328463	MFG
12/24/99	11:58:08		82	2012134416	8003328463	MFG
12/24/99	10:03:16		82	2012134416	9544289147	MFG
12/22/99	14:58:09		80	2012300764	19546467166	MFG
12/29/99	10:54:28		177	2012400657	19086881800	MFG
12/29/99	10:51:49		177	2012400657	9412503698	MFG
12/29/99	10:25:04		145	2012400657	12012400657	MFG
12/29/99	10:24:42		145	2012400657	12012400657	MFG
12/27/99	21:26:01		49	2012476225	15616551115	MFG
12/24/99	19:22:48		219	2012476225	15615551212	MFG
12/24/99	19:22:26		219	2012476225	15615551212	MFG
12/24/99	19:22:06		219	2012476225	15615551212	MFG
12/24/99	19:13:38		219	2012476225	5617950022	MFG
12/27/99	12:01:06		20	2012476225	15614996976	MFG
12/23/99	16:23:47		12	2012640686	3105152822	MFG
12/23/99	16:17:19		12	2012640686	3105152822	MFG
12/23/99	16:17:03		12	2012640686	3105152822	MFG

FIG. 6



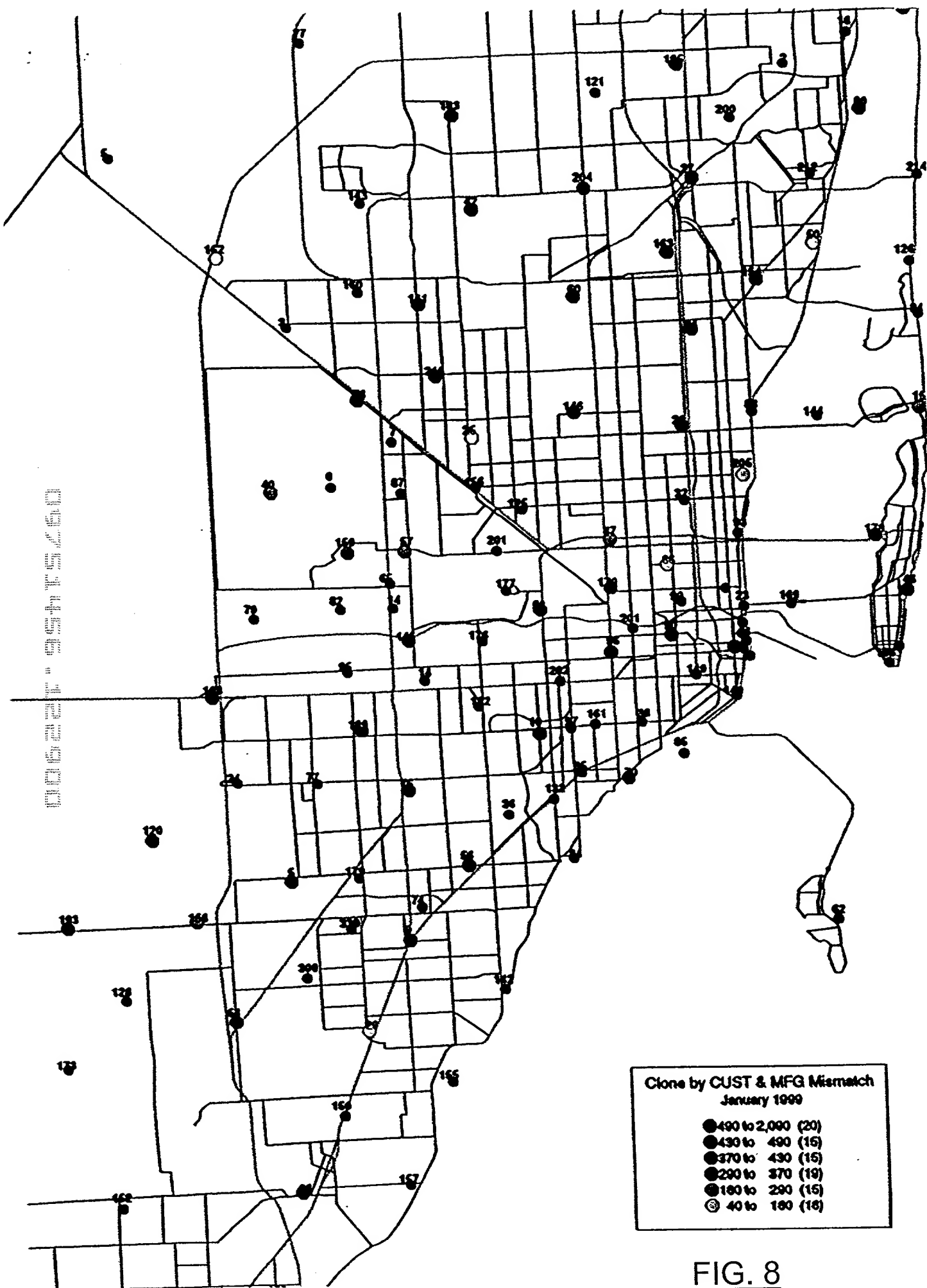


FIG. 8



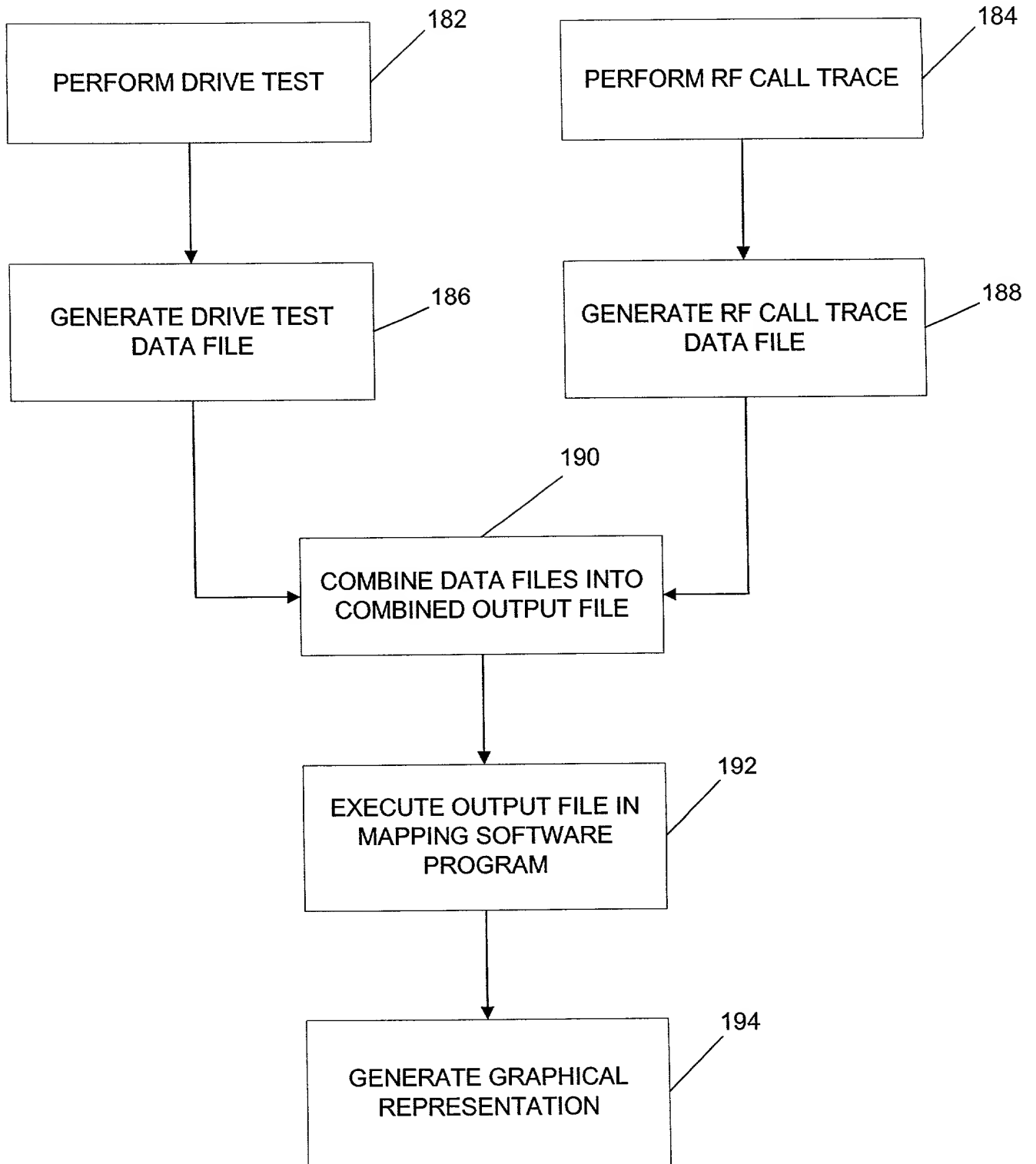


FIG. 9

SAMPLE Ericsson log

MOBILE TELEPHONY CELL TRAFFIC RECORDING  
DIGITAL SIGNAL STRENGTH MEASUREMENTS

MSNB	CELL	DEV	SSFVC	SSRVC
9412580201	T017C	MDVC-1060	23	20

SSSTDRVC	BERFVC	BERRVC	RBERRVC	FERRVC
6	3	2	2	0

BQFVC	TDRVC	FREQERR	TIMEALIGN	MSPOW
15	0	1	0	2

NCELL	NSSFFMC	MEASCHAN	VIND
T017A	5	1260	Y
T017B	23	1272	Y
T006B	17	1300	Y
T016B	13	1305	Y
T004A	29	1251	Y
T005B	33	1302	Y
T005A	23	1290	Y
T018A	21	1294	Y
T154B	21	1303	Y

TIME	PRINTIND	FCODE
11:08:27	0	

END

MOBILE TELEPHONY CELL TRAFFIC RECORDING CANDIDATE LIST FOR  
HANDOFF

MSNB	CELL	TIME	FCODE	URGENCY
9412580201	T017C	11:08:27		0

CANDCELL	CELLTYPE	NTYPE	RATING
T005B	0	STD	0

END

FIG. 10

[illegible]

FIG. 11A

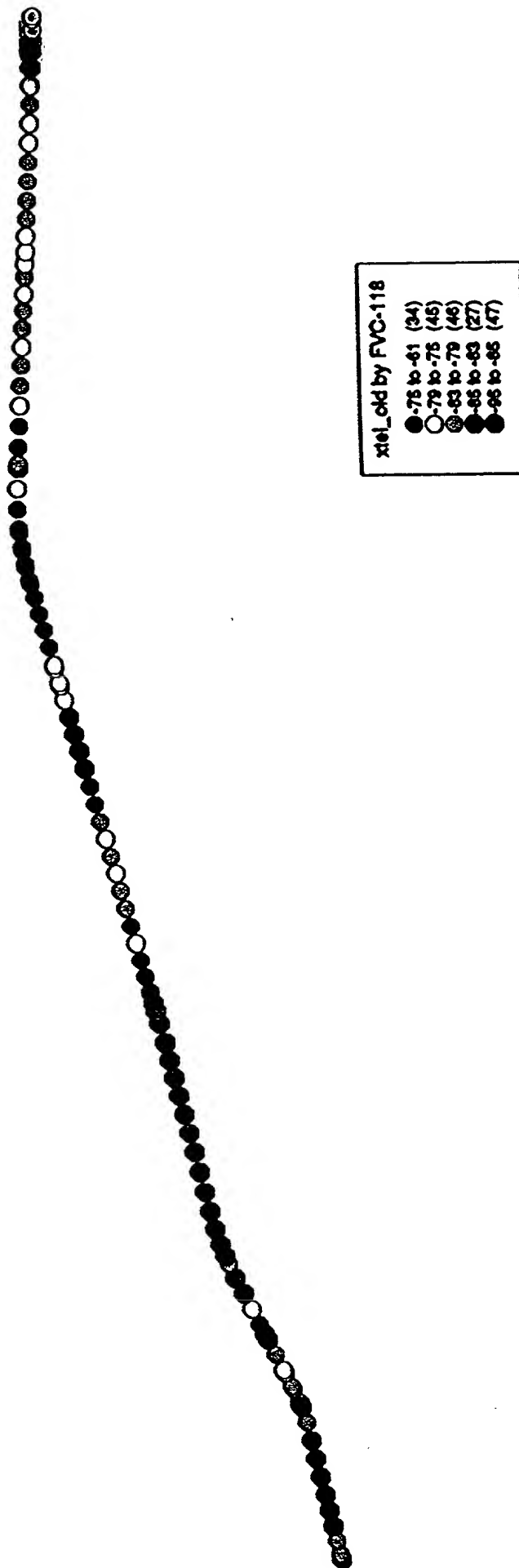
FT  
..

R, RBER, FER, BQ, TD, FREQ, TIME, MS, PRINT  
DEV, FVC, RVC, TDRVC, FVC, RVC, RVC, RVC, RVC, RVC, ERR, ALIG

28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069725,9412580201,T017C,MDVC-  
15,0,1,0,2,0  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0069856,9412580201,T017C,MDVC-  
15,0,2,0,2,1  
28.0070392,9412580201,T005B,MDVC-  
2,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0072014,9412580201,T005B,MDVC-  
7,0,4,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0073900,9412580201,T005B,MDVC-  
8,0,3,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
28.0075761,9412580201,T005B,MDVC-  
7,0,5,0,2,1  
992,9412580201,T005B

FIG. 11B

FIG. 12



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Table 1. Demographic characteristics of the study population	
Age (years)	Mean (SD)
Male	55.2 (10.5)
Female	56.8 (11.2)
Marital status	
Married	78.5%
Single	21.5%
Education level	
High school or above	65.2%
Below high school	34.8%
Occupation	
White collar	45.1%
Blue collar	54.9%
Income (USD/month)	
< 1000	12.3%
1000-2000	35.7%
2000-3000	28.9%
> 3000	23.1%
Health insurance	
Yes	89.4%
No	10.6%
Comorbidities	
Hypertension	42.1%
Diabetes	18.5%
Cholesterol	31.2%
Smoking status	
Current smoker	15.3%
Former smoker	22.7%
Non-smoker	62.0%

FIG. 13A

00622T 954T5250

Time,Long,Lat,CellNo,SS,  
12:41:29,28.6559300,-81.205792000,1353,-124  
12:41:29,28.6559300,-81.205792000,201,-106  
12:41:29,28.6559300,-81.205792000,32,-106  
12:41:29,28.6559300,-81.205792000,321,-76  
12:41:29,28.6559300,-81.205792000,323,-66  
12:41:29,28.6559300,-81.205792000,831,-100  
12:41:30,28.6559260,-81.205580000,323,-66  
12:41:31,28.6559170,-81.205380000,321,-75  
12:41:31,28.6559170,-81.205380000,321,-75  
12:41:31,28.6559170,-81.205380000,323,-64  
12:41:32,28.6559080,-81.205198000,323,-63  
12:41:33,28.6558950,-81.204922000,321,-73  
12:41:33,28.6558950,-81.204922000,323,-62  
12:41:34,28.6558900,-81.204769000,321,-73  
12:41:34,28.6558900,-81.204769000,321,-73  
12:41:34,28.6558900,-81.204769000,322,-98  
12:41:34,28.6558900,-81.204769000,323,-61  
12:41:35,28.6558900,-81.204577000,1353,-124  
12:41:35,28.6558900,-81.204577000,201,-105  
12:41:35,28.6558900,-81.204577000,202,-106  
12:41:35,28.6558900,-81.204577000,32,-105  
12:41:35,28.6558900,-81.204577000,323,-63  
12:41:35,28.6558900,-81.204577000,831,-99  
12:41:37,28.6558970,-81.204219000,321,-73  
12:41:37,28.6558970,-81.204219000,323,-67  
12:41:38,28.6559000,-81.204044000,321,-74  
12:41:38,28.6559000,-81.204044000,323,-67  
12:41:38,28.6559000,-81.204044000,321,-74  
12:41:38,28.6559000,-81.204044000,323,-67  
12:41:40,28.6559020,-81.203683000,1353,-122  
12:41:40,28.6559020,-81.203683000,202,-104  
12:41:40,28.6559020,-81.203683000,32,-105  
12:41:40,28.6559020,-81.203683000,321,-73  
12:41:40,28.6559020,-81.203683000,322,-96  
12:41:40,28.6559020,-81.203683000,323,-67  
12:41:41,28.6559070,-81.203457000,321,-72  
12:41:41,28.6559070,-81.203457000,323,-66  
12:41:42,28.6559100,-81.203125000,321,-71  
12:41:42,28.6559100,-81.203125000,323,-66

FIG. 13B

00522T 954560

```
V----- Record # 1: -----V
05/10/99 13:22:05 ALM INF 4103 7 32 G TC 457
Call Monitor: Call Record has been Written in RAM disk
Ph#: (407)9223002 Call clear by MS - mobile clear
V----- Record # 2: -----V
05/10/99 13:22:04 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -77 attn 4 snr 40
V----- Record # 3: -----V
05/10/99 13:22:04 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -73
V----- Record # 264: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 201 / -98
V----- Record # 265: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 322 / -103
V----- Record # 266: -----V
05/10/99 13:21:00 ALM INF 4117 7 83 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 831 / -96
V----- Record # 267: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 A SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 321 / -78
V----- Record # 268: -----V
05/10/99 13:21:00 ALM INF 4117 7 135 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 1353 / -113
V----- Record # 269: -----V
05/10/99 13:21:00 ALM INF 4117 7 20 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 202 / -100
V----- Record # 270: -----V
05/10/99 13:21:00 ALM INF 4113 7 32 G TC 457
Call Monitor: Call RSSI value
(407)9223002 cell 323 rrssi -72 attn 4 snr 40
V----- Record # 271: -----V
05/10/99 13:21:00 ALM INF 4117 7 32 G SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 323 / -71
V----- Record # 272: -----V
05/10/99 13:21:00 ALM INF 4117 7 3 B SRC
Call Monitor: Adj. cell RSSI values from Scanning Rcvr.
(407)9223002 Cell_id/RSSI: 32 / -115
```

FIG. 14



00622T 95475460



FIG. 15

